

LRSC  
7/9/03

# WISLR STATUS REPORT



Kelly Schieldt  
Mary Jo Trapani – Collins  
Joe Nestler

7/9/03

# OBJECTIVES

- *What is WISLR*
- *WISLR Benefits – Why Use WISLR*
- *What's Available Now*
- *WISLR Training Guide*
- *What's Coming Soon.....*
- *Pavement Rating Requirement*
- *On/At Instructions*
- *Questions & Answers*

# WHAT IS WISLR?

- A GIS data management system for local road data
- Available to local governments via the Web
  - Inventory data
  - Administrative data
  - Reporting
  - Mapping



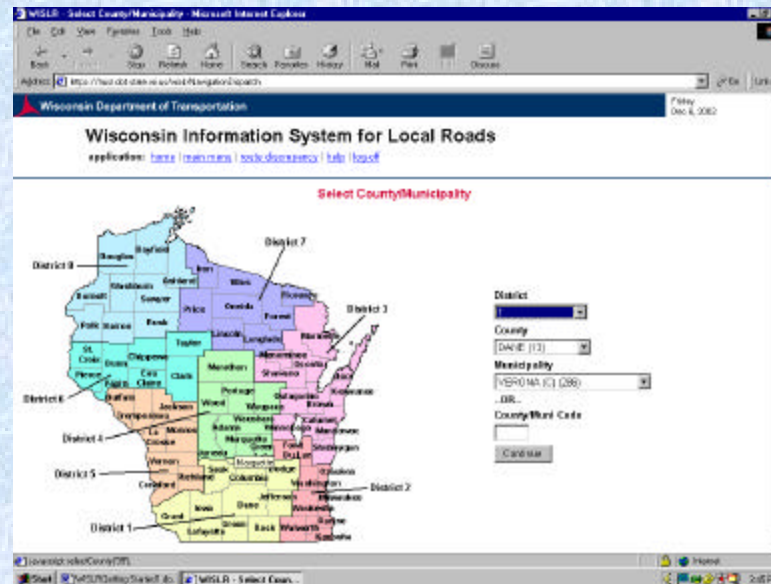
# WHY USE WISLR ?

- Access to Key Data for Decision-Making
- Get More Value for Your Improvement \$
- Substantiate Statewide Pavement Need
- View Data with Location (GIS)
  - View Trends in Data (map your data)
  - Graphics to Enhance Presentations
- Local Control of Data Quality



# Web – WISLR

## What's Available Now:



↓ ↓

**View Physical/Administrative Inventory**  
**Request Reports**  
**Request Downloads**

**Core Functionality is Operational**  
(exception = pavement analytical tools)

# Now Available..... Web – WISLR

## View Physical Inventory Data

WISLR - View Physical/Administrative Inventory - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address <https://trust.dot.state.wi.us/wislr/NavigationDispatch> Go Links >>

Wisconsin Department of Transportation Friday Dec 6, 2002

### Wisconsin Information System for Local Roads

application: [home](#) | [main menu](#) | [route discrepancy](#) | [help](#) | [log-off](#)

District: 1 County: DANE (13) Municipality: MADISON (C) (251) Certification Year: 2003

#### Location

Rd/St Name: Aaron Ct Rd/St Length: 211.00 feet | At/Toward Certified Mileage: 211.20 feet  
At: Ellen Ave (Termini) Toward: Termini View by Intersections? Yes ☐ No ☒ Unit of Measurement Feet ☒ Miles ☐

Retrieve Inventory

**Physical Inventory** Administrative Inventory View Physical Inventory

Map +	Attribute Name	Occurs	From Offset	To Offset	Length	Attribute Value
	Surface	1 of 1	0	211	211	Type: 70-Hot Mix Asphalt Pavement (HMAC), Width: 32 ft, Year: 1979
	Left Shoulder	1 of 1	0	211	211	Type: 0-None, Width: 0 ft
	Right Shoulder	1 of 1	0	211	211	Type: 0-None, Width: 0 ft
	One Way	1 of 1	0	211	211	One Way: No
	Right-of-Way	1 of 1	0	211	211	Indicator: A, Width: 60 ft
	Median	0 of 0	0	0	0	
	Left Curb	1 of 1	0	211	211	Type: 1-Standard (regular curb and gutter)
	Right Curb	1 of 1	0	211	211	Type: 1-Standard (regular curb and gutter)
	Parking	1 of 1	0	211	211	Parking: 3-Both Sides
	Traffic Lanes	1 of 1	0	211	211	Traffic Lanes: 2 Lanes

Done Internet

Start Viewing Data2JOE.doc... WISLR - View Physic... Inbox - Microsoft Outlook 11:16 AM



**Now Available..... Web – WISLR**

**View Map Display of Data**

**Expand Table**

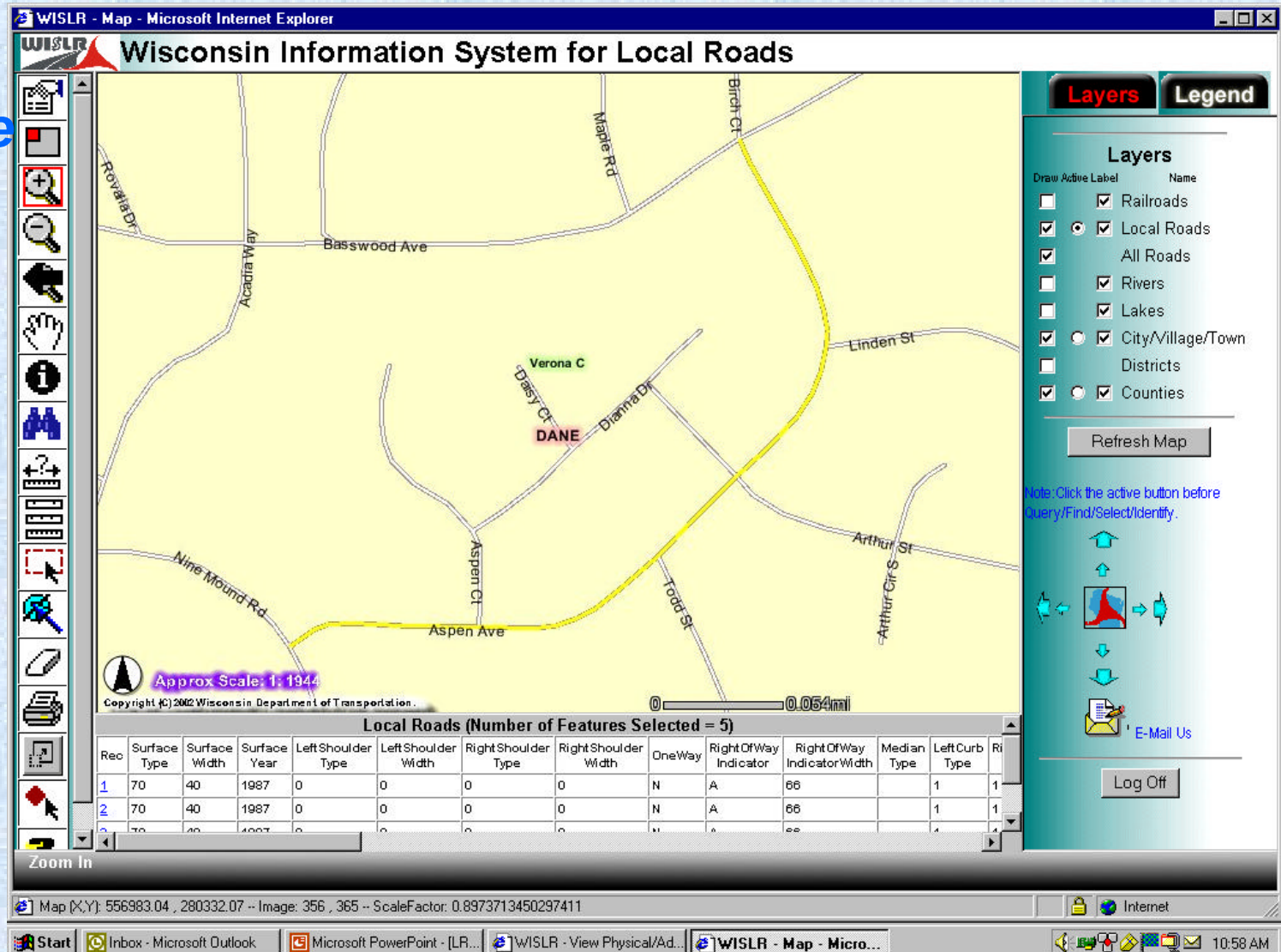
**Zoom**

**Pan**

**Measure**

**Print**

**Query**



***Now Available.....*      Web – WISLR**

## View & Download Inventory Reports

https://trust.dot.state.wi.us/wislr/FileDispatch/R-20/R-20-13-251-CY2002.pdf - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address <https://trust.dot.state.wi.us/wislr/FileDispatch/R-20/R-20-13-251-CY2002.pdf> Go Links

Bookmarks thumbnails

INVENTORY LISTING

DISTRICT 1

COUNTY OF DANE

CITIES

City Of Madison

00001S

1st St

00002N

2nd St

00003R

3rd St

00003R

3rd St

00004T

4th St

00005T

5th St

00006T

6th St

00007T

7th St

00008T

8th St

AARON

Aaron

ABERG

Aber

ACACIA

COUNTY OF DANE (13)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS  
Inventory Listing  
1-1-2002 Certification  
DISTRICT 1

City Of Madison (251) Page 1

Rd/St Name	Certified Miles																										
1st St	0.23																										
AT RD/ST OFFSET FEET	TO ROAD NAME	LENGTH MILES (FEET)	OW	L	Type	WD	YR	P	CURB LT	SHOULDER LT	MEDIAN Type	WD	ADT CNT	YR	BOW I	FC	RC	SC	O	UA	NHS	H	ALN AC	INV V	PVT R	YR	SW
E Washington Ave	Private	0.01 (53)	N	3	60	36	1977	0	1	1	000	000		A	007800	A	66	86	5	4	047	NON	00		1990		
Private	Main St	0.06 (317)	N	3	60	36	1977	0	1	1	000	000		A	007800	A	66	86	5	4	047	NON	00		1990		
Main St	Main St	0.02 (106)	N	3	60	36	1977	0	1	1	000	000		A	007800	A	66	86	5	4	047	NON	00		1990		
Main St	Alwood Ave	0.06 (317)	N	3	60	36	1977	0	1	1	000	000		A	007800	A	66	86	5	4	047	NON	00		1990		
Alwood Ave	Winnebago St	0.05 (264)	N	3	70	36	1982	0	1	1	000	000		A	005150	A	66	86	5	4	047	NON	S	06		1990	
Winnebago St	Eastwood Dr	0.03 (158)	N	3	75	52	1973	0	1	1	000	000	0	3	A	007400	A	75	86	5	4	047	NON	00		1990	

98% 1 of 917 11 x 8.5 in



**Now Available..... Web – WISLR**

**View & Download Certification Reports**

https://trust.dot.state.wi.us/wislr/FileDispatch/R-02/R-02-CO13-CY2002.pdf - Microsoft Internet Explorer

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Address https://trust.dot.state.wi.us/wislr/FileDispatch/R-02/R-02-CO13-CY2002.pdf Go Links »

Bookmarks Thumbnails Files

Certified Mileage Listing

COUNTY OF DANE (13)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS  
City / Village / Town / County Certified Mileage  
Jan 1, 2002

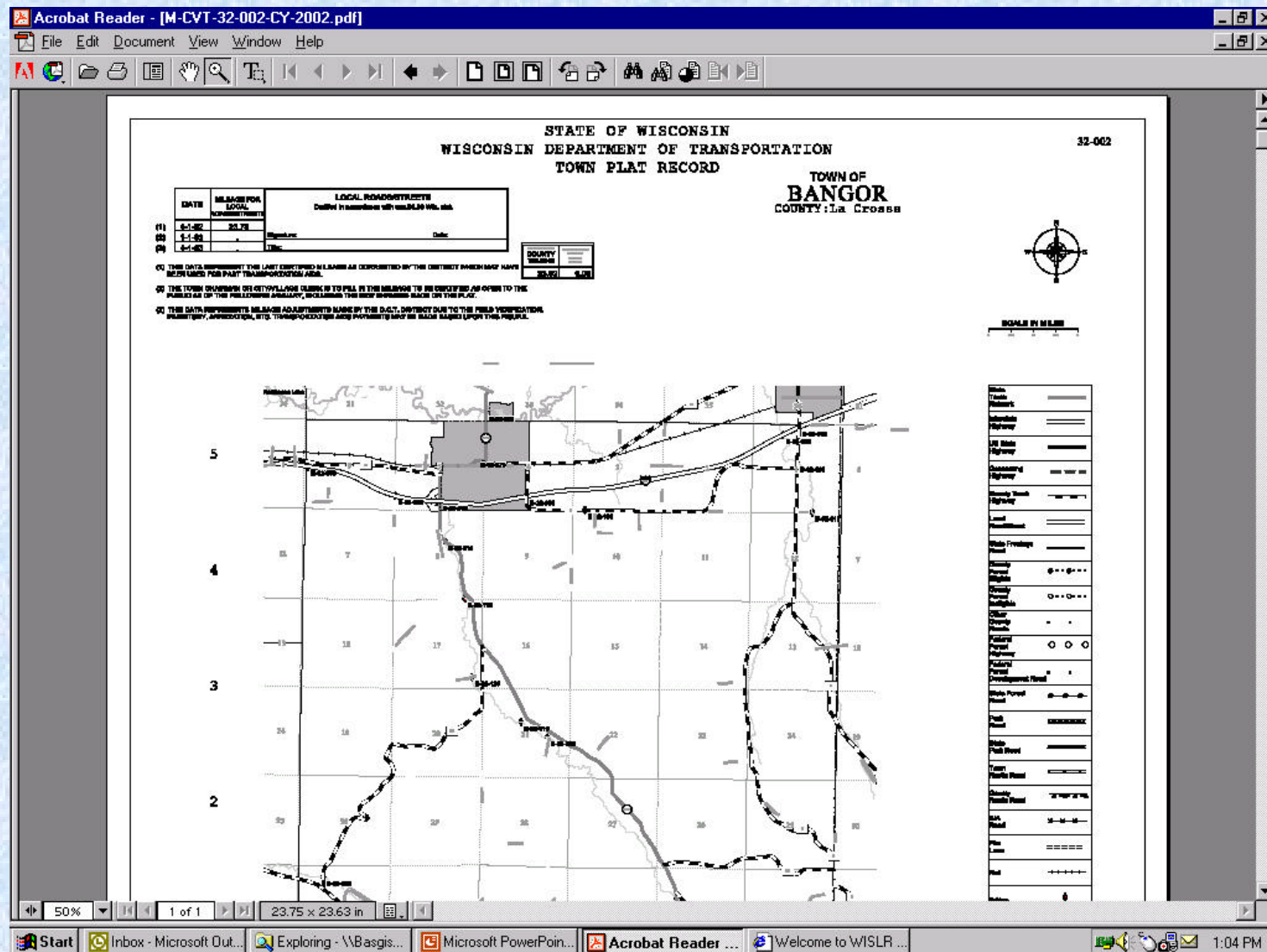
COUNTY OF DANE (13)

Municipality Name	Gross Miles	County Miles	Municipal Miles	County Jurisdiction			Municipal Jurisdiction		
				Arterial	Collector	Local	Arterial	Collector	Local
TOWN OF ALBION	63.45	14.14	49.31	0.00	12.10	2.04	0.00	7.66	41.65
TOWN OF BERRY	60.40	14.18	46.22	0.00	14.18	0.00	0.00	0.00	46.22
TOWN OF BLACK EARTH	27.39	7.79	19.60	0.00	6.52	1.27	0.00	0.00	19.60
TOWN OF BLOOMING GROVE	23.15	3.97	19.18	0.04	3.93	0.00	0.79	3.37	15.02
TOWN OF BLUE MOUNDS	62.58	24.18	38.40	0.00	14.89	9.29	0.00	0.33	38.07
TOWN OF BRISTOL	85.18	15.63	69.55	0.00	14.42	1.21	0.00	3.81	65.74
TOWN OF BURKE	47.60	5.97	41.63	1.92	4.05	0.00	0.36	10.52	30.75
TOWN OF CHRISTIANA	65.14	17.51	47.63	0.00	15.51	2.00	0.00	0.00	47.63
TOWN OF COTTAGE GROVE	79.28	11.83	67.45	3.62	6.95	1.26	0.00	6.53	60.92
TOWN OF CROSS PLAINS	62.46	19.00	43.46	0.00	12.05	6.95	0.00	2.06	41.40
TOWN OF DANE	62.81	13.20	49.61	0.00	9.44	3.76	0.00	0.00	49.61
TOWN OF DEERFIELD	56.00	8.43	47.57	0.00	8.43	0.00	0.00	4.17	43.40
TOWN OF DUNKIRK	67.00	14.04	52.96	8.70	5.34	0.00	0.66	1.29	51.01
TOWN OF DUNN	74.31	9.67	64.64	0.00	9.67	0.00	0.00	4.63	60.01
TOWN OF MADISON	17.38	1.37	16.01	1.37	0.00	0.00	0.29	4.62	11.10
TOWN OF MAZOMANIE	39.98	9.23	30.75	0.00	7.85	1.38	0.00	1.05	29.70
TOWN OF MEDINA	52.07	6.60	45.47	0.00	4.86	1.74	0.00	0.00	45.47
TOWN OF MIDDLETON	67.94	4.18	63.76	1.36	2.82	0.00	0.00	8.58	55.18
TOWN OF MONTROSE	58.19	16.76	41.43	6.59	9.91	0.26	0.00	1.88	39.55
TOWN OF OREGON	70.86	17.83	53.03	0.00	17.83	0.00	0.00	10.09	42.94
TOWN OF PERRY	57.05	17.46	39.59	0.00	12.42	5.04	0.00	0.00	39.59
TOWN OF PLEASANT SPRINGS	95.11	19.90	75.21	6.10	5.97	7.83	0.45	7.10	67.66
TOWN OF PRIMROSE	66.64	24.05	42.59	0.00	17.69	6.36	0.00	0.00	42.59
TOWN OF ROXBURY	60.34	14.17	46.17	0.00	9.60	4.57	0.00	4.57	41.60
TOWN OF RUTLAND	53.56	7.59	45.97	0.00	7.59	0.00	0.00	0.00	45.97

98% 1 of 3 11 x 8.5 in

Now Available..... **Web – WISLR**

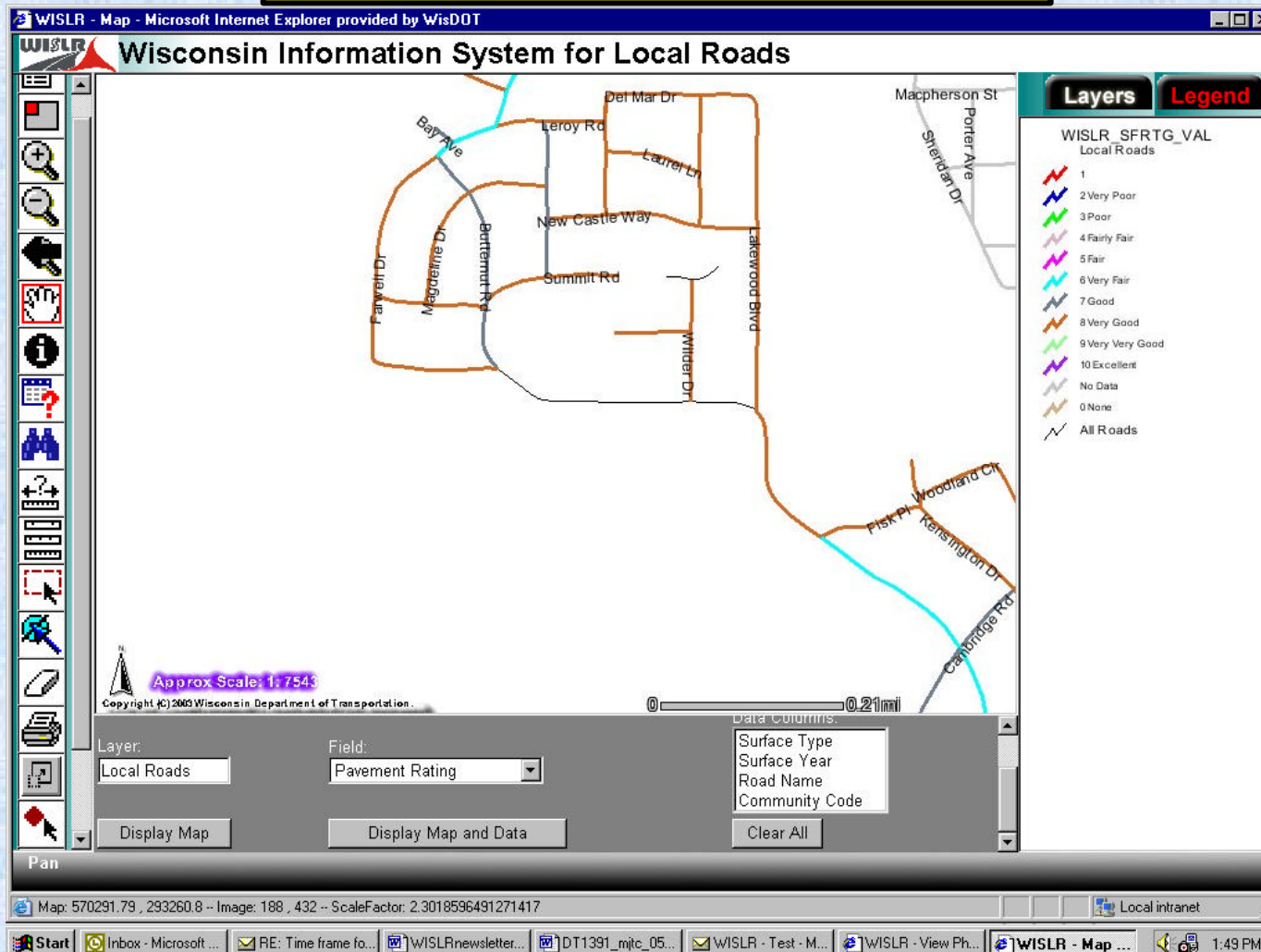
**View & Download C/V/T Maps**



**Now Available.....**

## GIS QUERY OPTIONS

### Map of Pavement Conditions





# ***How To Get Started***

- ***WISLR Quick Guide***
  - ***Access Privileges***
  - ***Inventory Data***
  - ***Map Icons***
  - ***GIS Query Functions***



# ***Coming Soon.....***

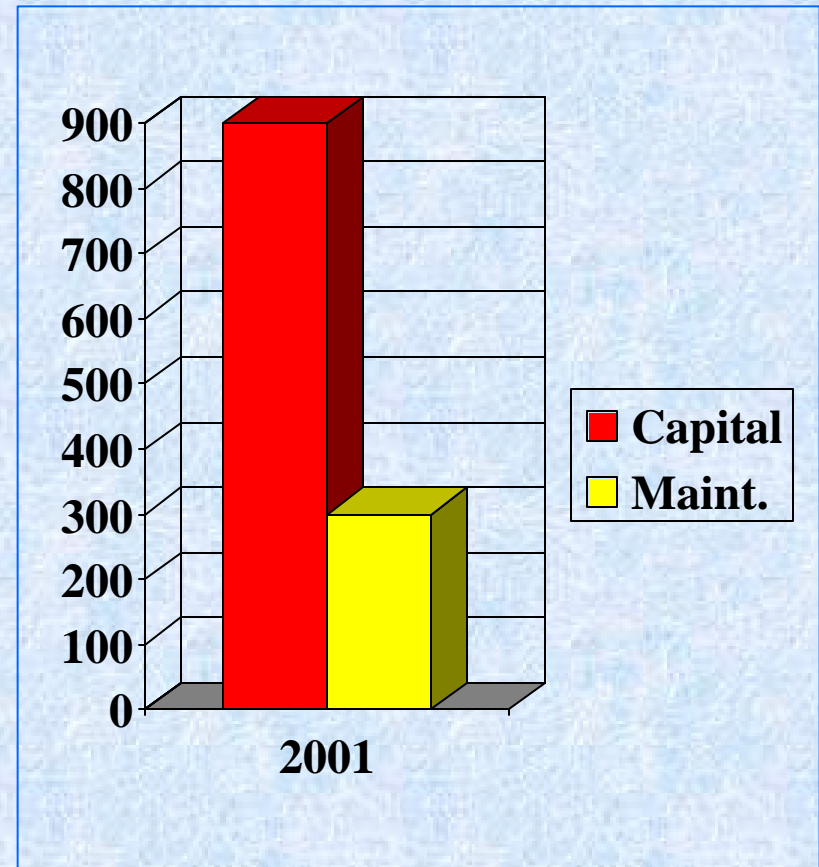
- **Pavement Analysis Tools**
- **GIS Query Functions**  
(associated w/pavement analysis)
- **Training**



*Coming Soon.....*

## Rudimentary Needs Analysis

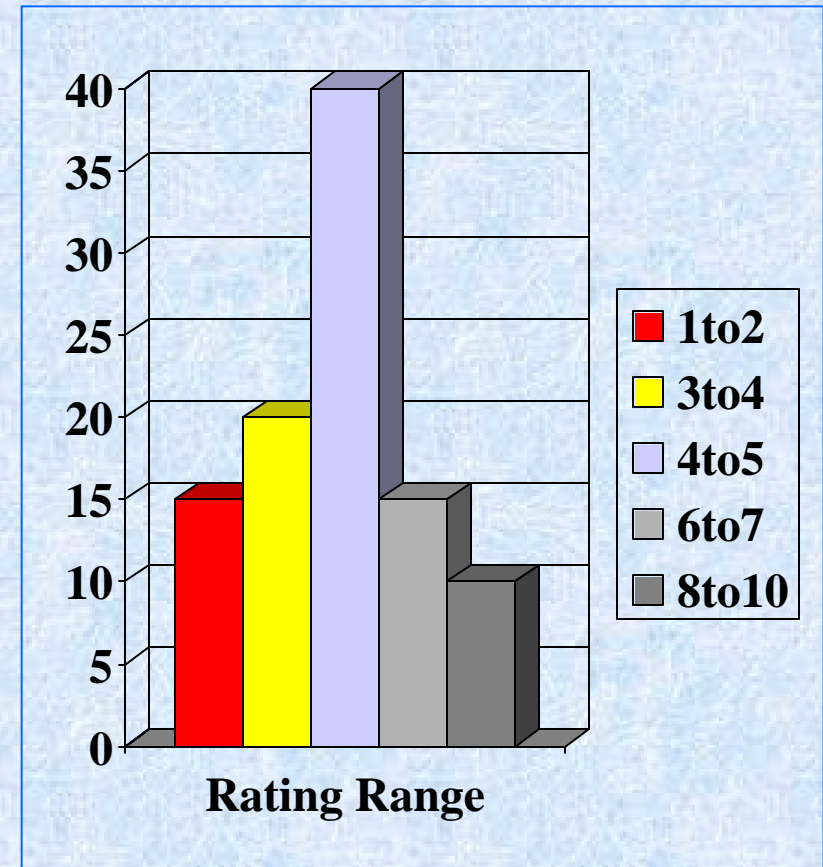
- Estimate current year capital improvement needs
- Estimate current year maintenance needs



*Coming Soon.....*

## Condition Frequency Report

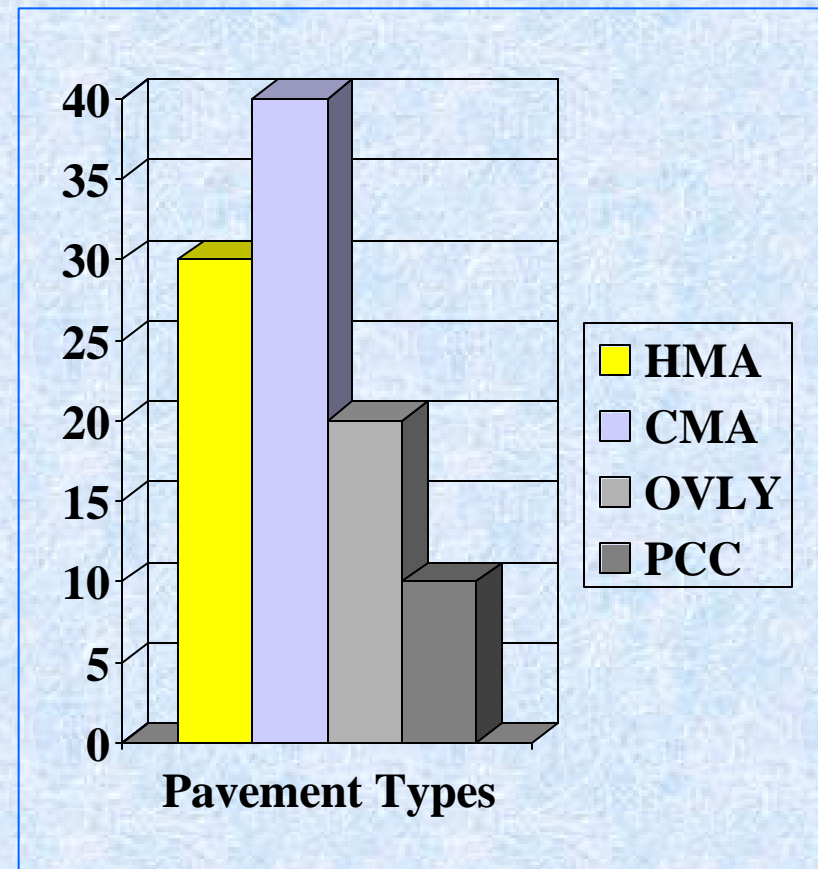
- Understand condition ranges by percent of pavement
- View on map via GIS query
  - Municipal or County



*Coming Soon.....*

# Frequency Report of Pavement Type

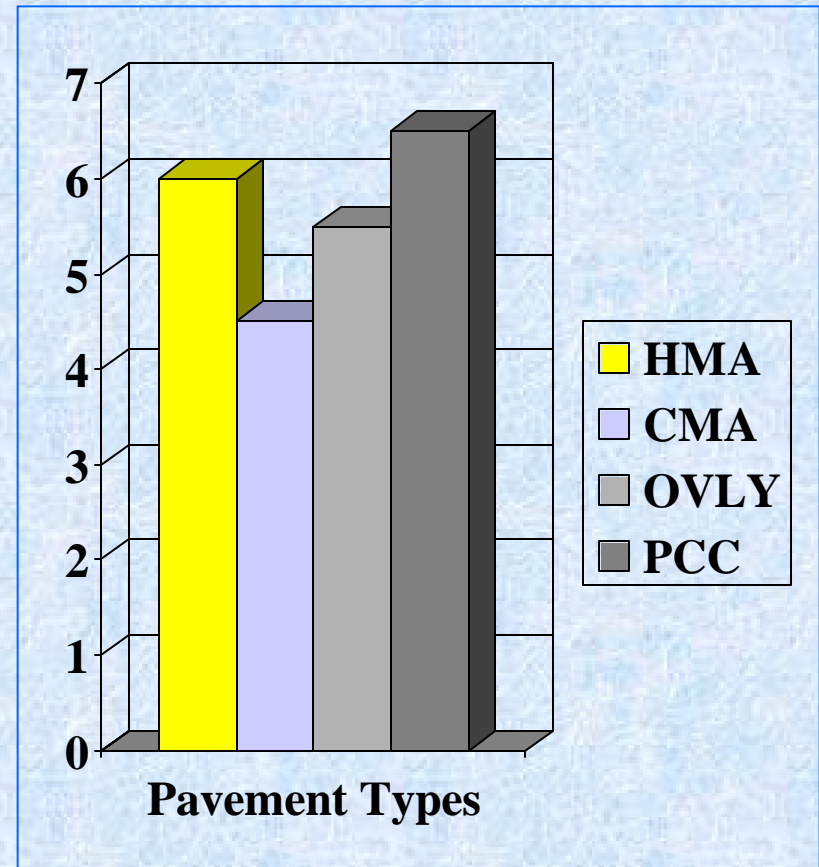
- Determines percentage of various pavement types
- Local and state basis



*Coming Soon.....*

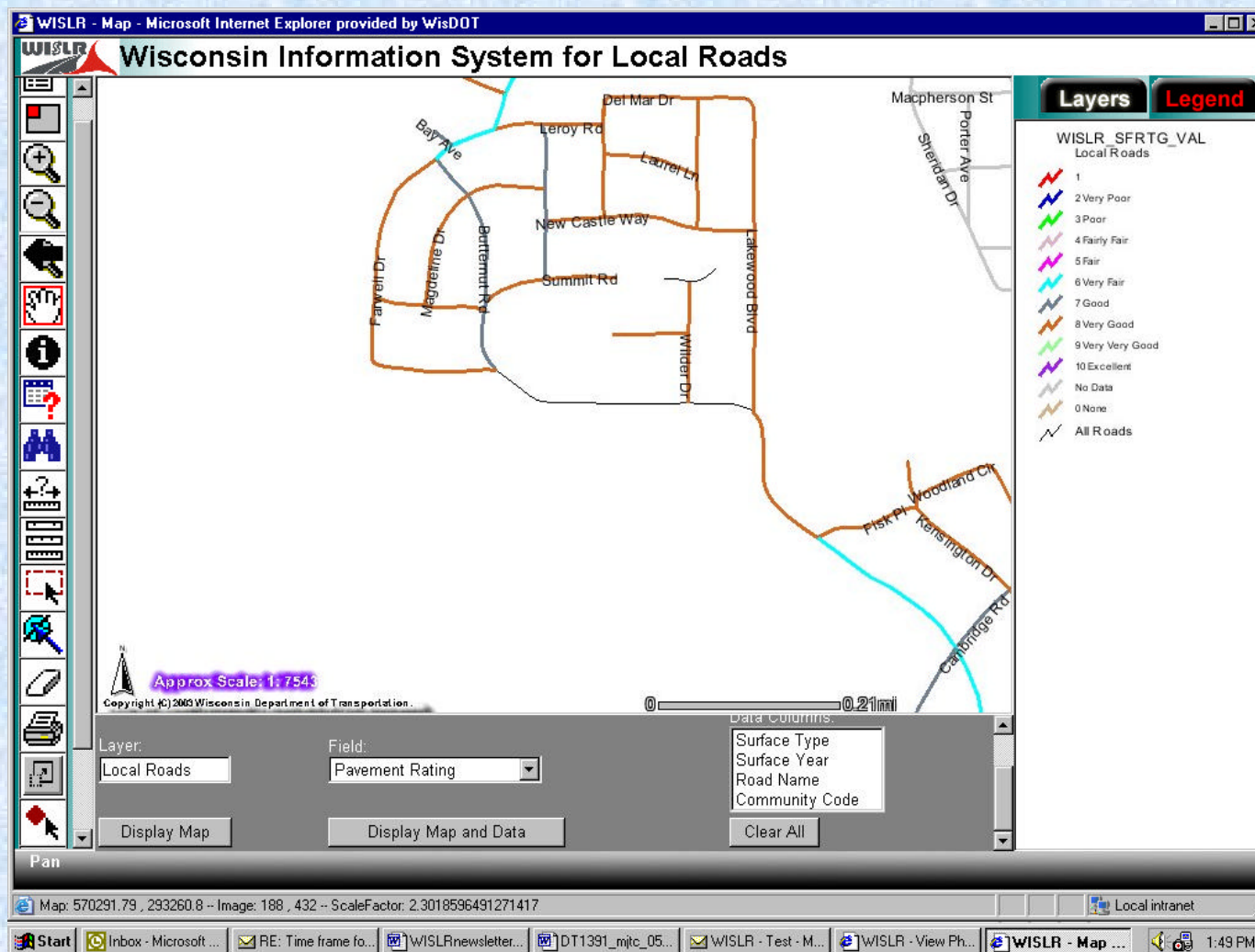
## Average Rating of Pavement Type

- Provides an indication of condition by pavement type
- Local and state basis
- GIS plot of type



# Coming Soon.....

## MORE GIS QUERY OPTIONS (related to pavement analysis)







# WISLR Training Status

## Materials for Web WISLR

- Quick Guide Training Materials
  - Adding "links" to on-line manual
- Adding On-Line Help Material

## Classroom Training for Locals:

- Training necessary for local editing privileges
- Thinking fall 2003 – Spring 04 at select locations....

## Some Long-Term Thoughts:

- On-Line Tutorial for Editing Privileges
- Training at Major Conferences (e.g. WTA, WCHA, etc.)



# **2003 Pavement Rating Requirement (Due 12/15/03)**

## **Most Common Submittals:**

- ***PASERWARE Users***
- ***Spreadsheet Users***



## 2003 Pavement Rating Requirement

- ***PASERWARE Users***

- Obtain PASERWARE (3.0) Download

- ***Spreadsheet Users***

- Obtain an On/AT Rating Spreadsheet

- ***Other Users***

- Obtain a Generic On/AT Spreadsheet

- ***To Obtain Materials Contact:***

- ***downloadinfo@dot.state.wi.us***
- ***or call Crystal at 608.266.7135***



## 2003 Pavement Rating Requirement

### ***Submit Pavement Rating Data:***

- By Email at: [ratingsubmittal@dot.state.wi.us](mailto:ratingsubmittal@dot.state.wi.us)
- By US Mail:  
Crystal Van Woelderen  
WisDOT  
4802 Sheboygan Ave, Room 933  
Madison, WI 53707-7913

# ***The On/At Method***

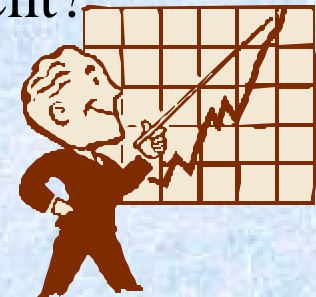
(please refer to handout)



# QUESTIONS

# Benefits of Pavement Condition Rating Data

- Standardized basis to assess condition
  - Comparative analysis –
    - decision support/prioritization
- Basis for assessing pavement performance
  - Understand “service life extension” per rehab option
- Facilitates Program Optimization (bang for buck)
  - What are viable improvement alternatives?
  - What is the most cost-effective option?
  - What is the optimum year for improvement?



## **PAVEMENT CONDITION RATING LANGUAGE FROM STATUTE 86.302 (2)**

**Not later than December 15, 2001, and biennially thereafter, each municipality and county shall assess the physical condition of highways under its jurisdiction, using a pavement rating system approved by the department and report the results of that assessment to the department. The department shall assess the accuracy of mileage or other data concerning highways reported by municipalities and counties and may use field investigations to verify a portion of the data constituting a valid random sample or such specialized sample as the department considers appropriate. The department shall cooperate with and provide assistance to local units of government in their effort under this subsection. Information collected under this subsection is inadmissible as evidence, except to show compliance with this subsection**

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# Wisconsin Department of Transportation (WisDOT)

- **ACCEPTABLE PAVEMENT RATING**

- **A pavement rating that is a function of pavement distress evident at the pavement surface.**
- **A formalized rating procedure:**

Well defined and standardized definitions must exist that categorize pavement distress in a manner such that a pavement condition rating can be logically assessed or calculated based on the distress types and quantities evident at the pavement surface.

# Wisconsin Department of Transportation

## **SOPHISTICATED SYSTEMS**

- **Incorporate Detailed Identification and Measurement of Pavement Distress:**
  - Detailed distress identification & measurement provides a foundation for accurate predictions of conditions
  - For sophisticated systems, a predicted rating can be submitted every to years, provided that:
    - Date of original inspection is less  $\leq 6$  years old,  
and
    - A reasonable planning level inspection density was used:  
density  $\geq 10\%$  of area  
or  
density has achieved 95% level of confidence based  
on sample standard deviation



# Wisconsin Department of Transportation

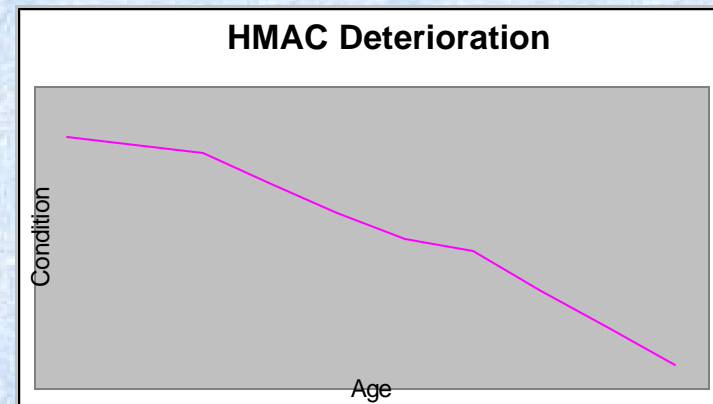
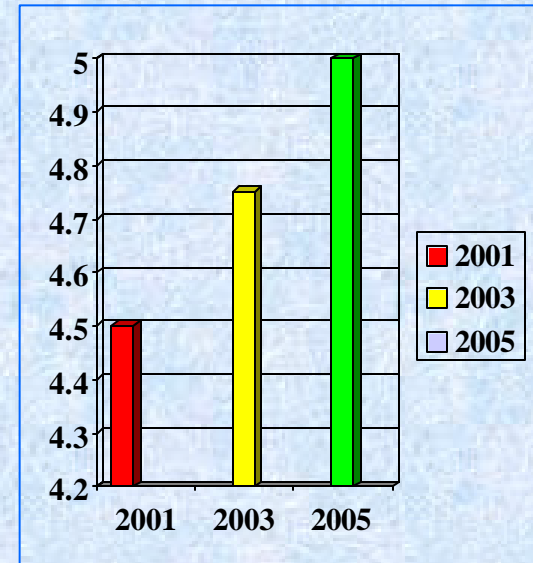
## **SOPHISTICATED SYSTEMS – Continued**

- Submitting a rating for these pavements will be required every two years
- However, a “predicted” rating may be submitted as long as the rating is not predicted beyond six years from the date of the original pavement inspection.

# Responsible Stewardship

## Graph of Rating History

- Establish historical data
- Track Pavement Performance
- View by subcategories
  - Regional
  - Pavement type
  - Functional class





## WHY WISLR INVESTMENT ?



### The Problem

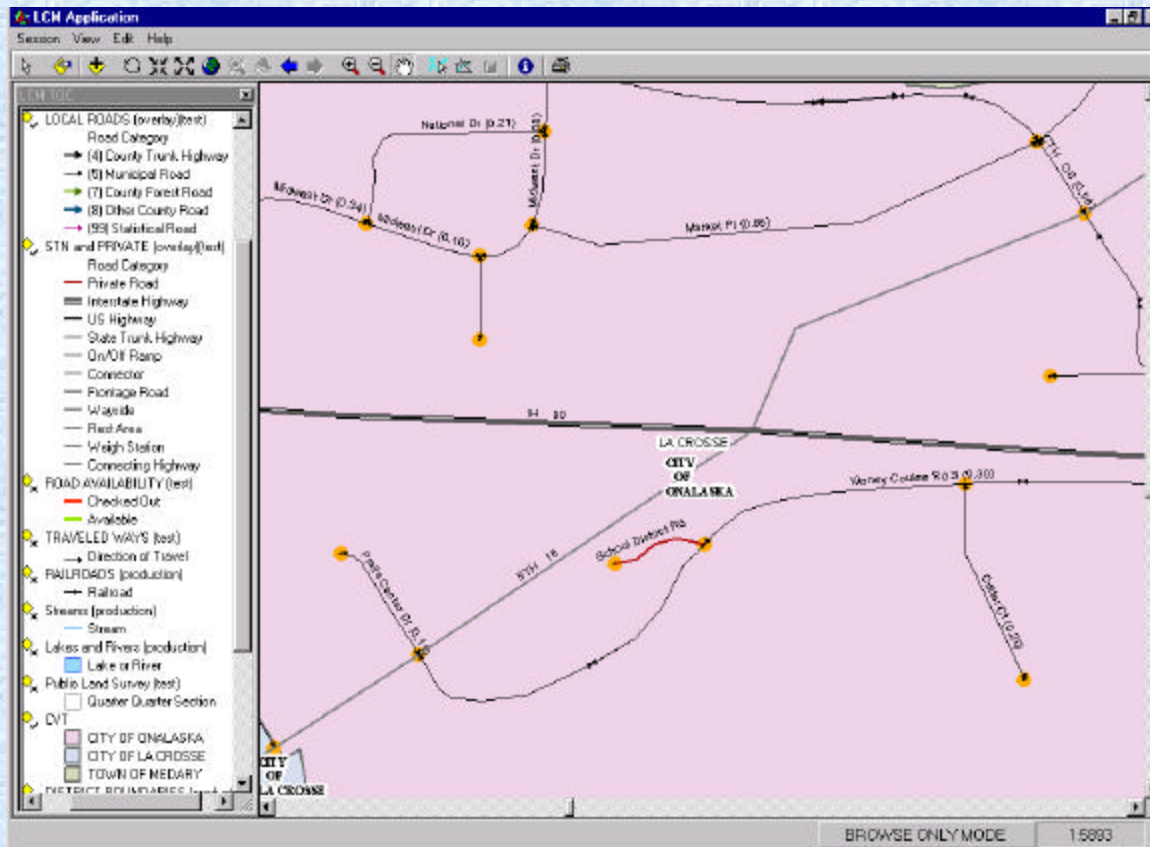
- No local road condition information (needs =?)  
Antiquated data management system  
Redundant data collection

### The Solution

- Standardized basis to estimate pavement need  
Statute 86.302(2)  
Utilize new technologies (GIS, Web, etc.)  
Improve decision-making

# WISLR – LCM

## (Location Control Management)



- Add a road
- Annexations
- County J.T.
- State J.T.
- Abandonment
- Remeasurement

**Additional Non-Mileage Tools to be Developed in 2003**